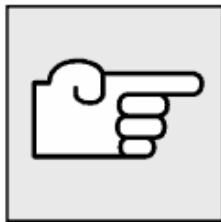**Special tools required:**
- 00 5 010
- 00 5 500
- 23 0 020
- 23 1 300
- 23 1 302
- 31 2 101
- 31 2 102
- 31 2 103
- 33 1 010
- 33 1 070
- 33 1 150
- 33 3 430
- 33 3 440
- 33 3 470
- 33 3 480
- 33 3 490

Note:

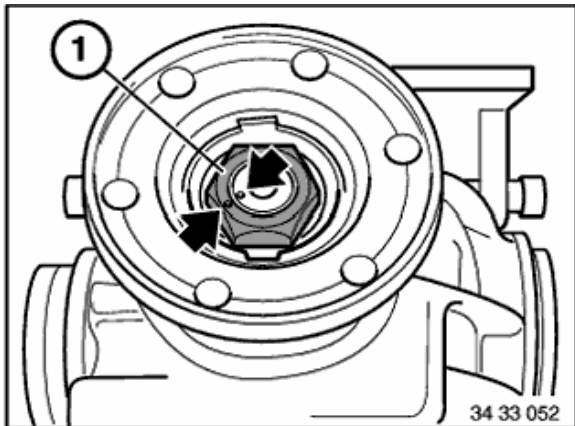After completion of work, check transmission oil level.

Important!

    Use only the approved differential oil in this final drive.

Failure to comply with this instruction will result in serious damage to the final drive.
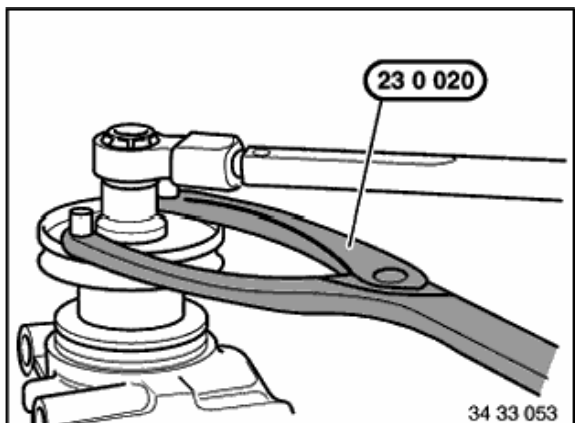
Remove final drive.

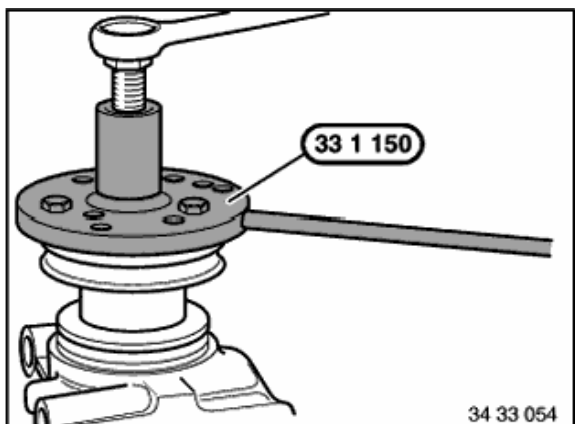Secure final drive with special tool 33 1 010 / 33 1 070 to assembly stand.

Lift out retaining plate.

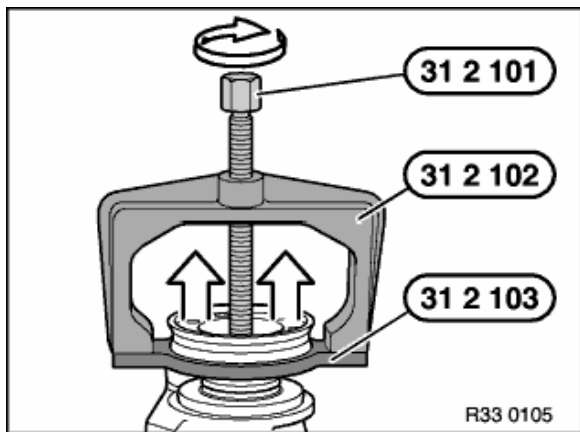Mark position of nut (1) to drive shaft with a center punch.

Brace drive flange with special tool 23 0 020 and release nut.

Detach drive flange; if necessary, use special tool 33 1 150 .

Important!

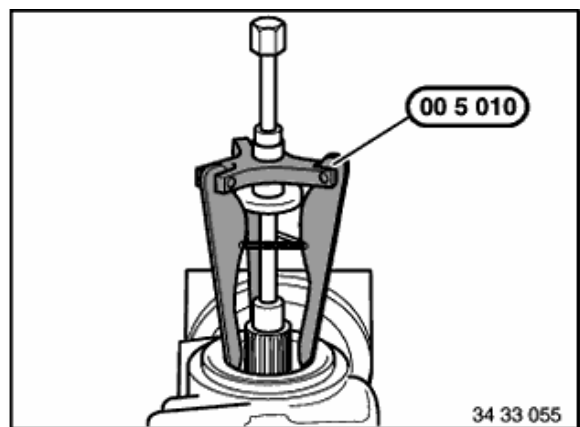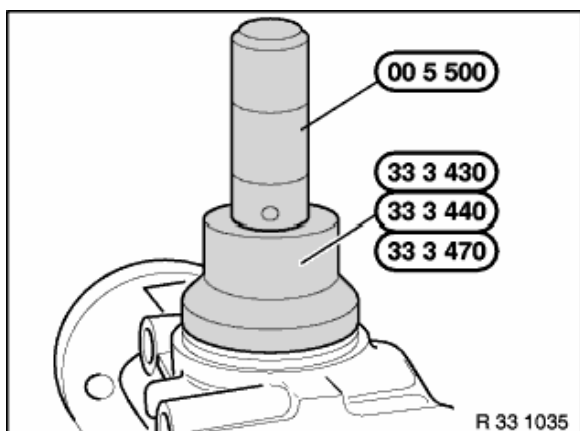Replace drive flange if sealing face is heavily worn.

RA Replacing shaft seal for drive flange on final drive
Issue status (12/2002) Valid only until next CD is issued

BMW AG - TIS
Copyright

01.04.2004 12:47
Page - 2 -

Compact final drive:

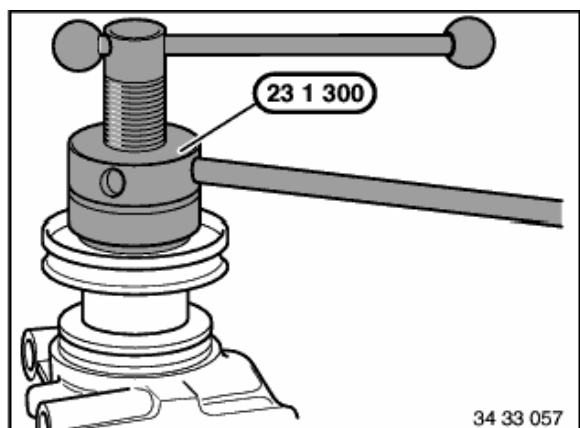Detach drive flange with special tools 31 2 101 , 31 2 102 , 31 2 103 .

Pull out shaft seal with special tool 00 5 010 .
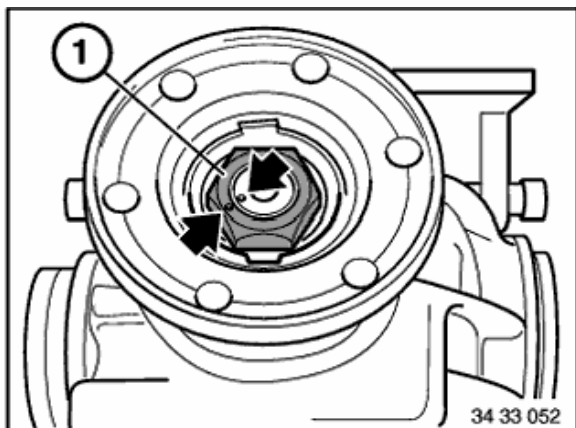
Drive in new shaft seal as far as it will go:

- Special tools 00 5 500 and 33 3 430 for transmission type "K" (side cover with 4 screws)

- Special tools 00 5 500 and 33 3 470 for transmission type "M" (side cover with 6 screws)

- Special tools 00 5 500 and 33 3 440 for transmission type "G" (side cover with 8 screws)

Coat sealing lips of shaft seal and sealing face of drive flange with differential oil.

Attach drive flange.

Press on drive flange with special tool 23 1 300 , if necessary 23 1 302 until collar nut can be screwed on.

RA Replacing shaft seal for drive flange on final drive
Issue status (12/2002) Valid only until next CD is issued
BMW AG - TIS
Copyright
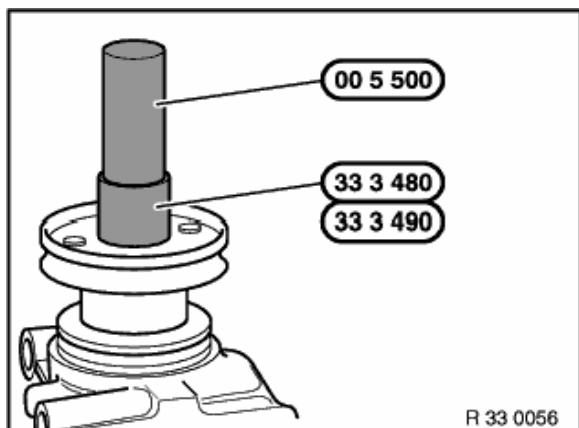**01.04.2004 12:47**
Page - 3 -

34 33 052

Tighten down collar nut (1) until marker points are aligned.

Important!

Do not under any circumstances tighten down collar nut beyond the marker points, otherwise replace clamping sleeve.

To this end, the marker points must be aligned before starting work.

00 5 500

33 3 480

33 3 490

R 33 0056

Drive in new tab washer with special tools 00 5 500 , 33 3 480 and 33 3 490   .